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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/050,061	01/15/2002	Toren S. Davis	H0002526 (A66) US	1119	
7590 04/20/2004			EXAM	INER	
Honeywell In	ternational Inc.	TORRES, MELANIE			
Law Dept. AB2	2				
PO Box 2245		ART UNIT	PAPER NUMBER		
Morristown, N	IJ 07962-9806	3683			
			DATE MAILED: 04/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
Office Action Summary		10/050,	061	DAVIS, TOREN S.	1.		
		Examin	r	Art Unit			
		Melanie		3683			
Th Peri d for Re	e MAILING DATE of this commun	ication appears on t	n cover sheet with the c	orrespondence addi	ress		
A SHORT THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUN of time may be available under the provisions) MONTHS from the mailing date of this comm if for reply specified above is less than thirty (3 d for reply is specified above, the maximum si- eply within the set or extended period for reply beceived by the Office later than three months ent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no ending the interestion. statutory period will apply and rewill by statute. cause the all	vent, however, may a reply be tin atutory minimum of thirty (30) day will expire SIX (6) MONTHS from polication to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	nmunication.		
Status							
1)⊠ Res	ponsive to communication(s) file	ed on <u>1/28/04</u> .					
•	•	2b)□ This action is	non-final.				
3)☐ Sin							
Disposition of	of Claims						
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	im(s) <u>5,7-10 and 12-14</u> is/are per Of the above claim(s) is/are im(s) is/are allowed. im(s) <u>5,7-10 and 12-14</u> is/are rej im(s) is/are objected to. im(s) are subject to restri	ected.	onsideration.				
Application I	Papers						
10)□ The App Rep	specification is objected to by the drawing(s) filed on is/are licant may not request that any objected that any objected the declaration is objected the drawing sheet of the dra	: a) accepted or lection to the drawing(sign the correction is requ	be held in abeyance. Se ired if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFF			
Priority unde	er 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice of [3] Informatio	References Cited (PTO-892) Draftsperson's Patent Drawing Review (n Disclosure Statement(s) (PTO-1449 o s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 5, 7,10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffen et al.

Re claims 5, and 10, Griffen et al. teaches a tuned mass damper comprising a mass having predetermined inertia properties and a plurality of isolators (hexapod/secondary suspension) arranged in a hexapod configuration, each isolator having at least a first end and a second end, each isolator first end coupled to the mass (Secondary mass) and each isolator second end adapted to couple to a structure (Primary Mass or Payload) that may experience vibrations in six independent degrees of freedom, wherein each of the isolators in combination with the mass, is individually tuned to reduce the vibrations experienced by the structure. (Fig. 9, Column 1, line 67 – Column 2, line 9, Column 7, lines 18-21)

Re claims 7 and 12, Griffen et al. teaches wherein each of the isolators, in combination with the mass, is individually tuned such that a combination of two or more isolators reduces a particular frequency. It is the examiner's position that this would be an inherent feature of the structure.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Griffen et al. in view of Cunningham et al.

Re claims 8 and 13, Griffen et al. teach wherein each isolator second end is adapted to couple the structure at a predetermined location thereon. However, Griffen et al. do not teach wherein each isolator comprises a spring having an adjustable spring constant, and wherein each isolator is individually tuned by adjusting its spring constant and the predetermined location on the structure to which its second end will couple. Cunningham et al. teaches wherein each isolator comprises a spring having an adjustable spring constant, and wherein each isolator is individually tuned by adjusting its spring constant and the predetermined location on the structure to which its second end will couple as is acknowledged by applicant on page 2, lines 17-21. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have tuned and adjusted each isolator to provide the desired vibration isolation in six degrees of freedom.

5. Claims 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffen et al. in view of Gran et al.

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Re claim 9, Griffin et al. does not teach wherein the isolators comprise tubular damping struts with first and second spherical pivots at opposite ends of the tubular damping strut. Gran et al. teaches isolators comprise tubular damping struts (6) with first and second spherical pivots at opposite ends of the tubular damping strut in a hexapod configuration. (Fig. 2, 6) The examiner takes official notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the isolators and pivots of Gran et al. in the assembly of Griffin et al. as the use of damping struts and pivots is well known in hexapod assemblies.

Response to Arguments

Applicant's arguments filed January 28, 2004 have been fully considered but they are not 6. persuasive.

As was argued in the previous office action, applicant argues that Griffen et al. does not teach wherein each of the isolators in combination with the mass is individually tuned to reduce the vibrations experienced by the structure. It is unclear to the examiner how the instant application differs from the prior art. Structurally, both the prior art and the instant application teach wherein the hexapod suspension couples to rotation and translation in all three dimensions. The purpose of the structure is to reduce vibrations and anyone skilled in the art would tune the isolators to reduce such vibrations. The claim language is interpreted such that the isolators in combination with the mass are tuned to reduce the vibrations of the structure. This is the purpose of the damper of Griffen et al. and though applicant may intend to claim wherein each individual

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isolator has certain damping characteristics independent of the other isolators, the current claim

language does not support a more specific interpretation.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Melanie Torres whose telephone number is (703)305-0293. The

examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Lavinder can be reached on (703)308-3421. The fax phone numbers for the

organization where this application or proceeding is assigned are (703)308-2571 for regular

communications and (703)308-2571 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)308-1113.

MT

April 14, 2004

PATENT EXAMINED

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